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⑤④ Modification of DNA sequences.

⑤⑦ The invention is embodied by digesting a vector DNA sequence with a restriction enzyme, removing any unwanted nucleotides, treating the cleaved vector with exonuclease III to create 5' sticky ends, mixing with the thus treated vector an even number of single-stranded nucleotides of alternating sense and anti-sense sequence which alternately encode or are complementary to the desired sequences in the product DNA, and which single-stranded oligonucleotides have termini which overlap and are complementary to termini of the adjacent oligonucleotide(s) and/or cleaved vector 5' sticky ends so as to form a tandem bridge between the 5' sticky end upstream of the original cleavage site and the 5' sticky end downstream of the original cleavage site, and treating the mixture with DNA polymerase and ligase.

EP 0 316 018 A3



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EUROPEAN SEARCH REPORT

Application Number

EP 88 12 0140

DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. 4)
A	EP-A-0 130 756 (GENENTECH INC.) ---		
A	EP-A-0 128 467 (F. HOFFMANN-LA ROCHE & CO.) -----		C 12 N 15/00
			TECHNICAL FIELDS SEARCHED (Int. Cl. 4)
			C 12 N

The present search report has been drawn up for all claims

Place of search

THE HAGUE

Date of completion of the search

17-02-1989

Examiner

VAN PUTTEN A.J.

CATEGORY OF CITED DOCUMENTS

X : particularly relevant if taken alone
Y : particularly relevant if combined with another document of the same category
A : technological background
O : non-written disclosure
P : intermediate document

T : theory or principle underlying the invention
E : earlier patent document, but published on, or after the filing date
D : document cited in the application
L : document cited for other reasons
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& : member of the same patent family, corresponding document